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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

- 1-8. (canceled)
- 9. (original) A system for stud bumping, comprising:
 - a bonding head having a plurality of wire passages formed therein;
 - a plurality of wires disposed through respective ones of the plurality of wire passages;
 - a substrate having a plurality of bond pads; and
 - a robot coupled to the bonding head, the robot operable to form a first set of stud bumps outwardly from respective ones of a first set of the bond pads.
- 10. (original) The system of Claim 9, wherein the bonding head is formed from a ceramic.
- 11. (original) The system of Claim 9, wherein the wires are formed from a material selected from the group consisting of gold and aluminum.
- 12. (original) The system of Claim 9, wherein a pitch between any two adjacent wire passages is no more than 1000 microns.
- 13. (original) The system of Claim 9, wherein a pitch between any two adjacent wire passages is no more than 200 microns.
- 14. (original) The system of Claim 9, wherein the wire passages resemble an array selected from the group consisting of a linear array and a rectangular array.
- 15. (original) The system of Claim 9, wherein the robot is operable to simultaneously engage the wires with respective ones of the bond pads to form the stud bumps.
- 16. (original) The system of Claim 9, further comprising forming a second set of

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stud bumps outwardly from respective ones of a second set of the bond pads.

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17. (original) A bonding head for simultaneously forming a plurality of stud bumps outwardly from respective ones of a plurality of bond pads formed on a substrate, comprising:

a generally rectangular body;

an array of wire passages formed in the body, each wire passage configured to accept a wire, the array selected from the group consisting of a linear array and a rectangular array; and

wherein a pitch between any two adjacent wire passages is no more than 1000 microns..

- 18. (original) The bonding head of Claim 17, wherein the body is formed from a ceramic.
- 19. (original) The bonding head of Claim 17, wherein the wires are formed from a material selected from the group consisting of gold and aluminum.
- 20. (original) The bonding head of Claim 17, wherein a pitch between any two adjacent wire passages is no more than 200 microns.